

Table 3. San Francisco Estuary Institute - Total Budget.

| Task | Direct Labor Hours | Direct Salary and Benefits | Service Contracts | Material and Acquisition Costs | Misc. and other Direct Costs | Overhead and Indirect Costs | Total Cost |
|-------------|---------------------------|-----------------------------------|--------------------------|---------------------------------------|-------------------------------------|------------------------------------|-------------------|
| Task 1 | 1,755 | 30,274 | 118,500 | - | - | 11,226 | 160,000 |
| Task 2 | - | - | 91,000 | - | - | - | 91,000 |
| Task 3 | - | - | 95,000 | - | - | - | 95,000 |
| Task 4 | - | - | 58,000 | - | - | - | 58,000 |
| Task 5 | 127 | 6,055 | 74,700 | - | - | 2,245 | 83,000 |
| Task 6 | - | - | 187,000 | - | - | - | 187,000 |
| Task 7 | - | - | 208,000 | - | - | - | 208,000 |
| Task 8 | - | - | 332,000 | - | - | - | 332,000 |
| Task 9 | - | - | 166,000 | - | - | - | 166,000 |
| Task 10 | - | - | 166,000 | - | - | - | 166,000 |
| Task 11 | 2,238 | 60,549 | 539,000 | - | - | 22,451 | 622,000 |
| Task 12 | 633 | 30,274 | 118,500 | - | - | 11,226 | 160,000 |
| Task 13 | 127 | 6,055 | 41,700 | - | - | 2,245 | 50,000 |
| Task 14 | 122 | 5,836 | - | - | - | 2,164 | 8,000 |
| | | | | | | | |
| Subtotal | 5,001 | 139,043 | 2,195,400 | - | - | 51,557 | 2,386,000 |
| | | | | | | | |
| Fee 5% | | | 109,770 | | | | 109,770 |
| | | | | | | | |
| Total | 5,001 | 139,043 | 2,305,170 | - | - | 51,557 | 2,495,770 |

Table 4. Quarterly Budget.

| Task | Quarterly Budget Oct - Dec 1999 | Quarterly Budget Jan - Mar 2000 | Quarterly Budget Apr - Jun 2000 | Quarterly Budget Jul - Sep 2000 | Quarterly Budget Oct - Dec 2000 | Quarterly Budget Jan - Mar 2001 | Quarterly Budget Apr - Jun 2001 | Quarterly Budget Jul - Sep 2001 | Quarterly Budget Oct - Dec 2001 | Quarterly Budget Jan - Mar 2002 | Quarterly Budget Apr - Jun 2002 | Quarterly Budget Oct - Dec 2002 | Total Budget |
|---------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------|
| Task 1 | 40,000 | 40,000 | 40,000 | 40,000 | | | | | | | | | 160,000 |
| Task 2 | | 30,333 | 30,333 | 30,334 | | | | | | | | | 91,000 |
| Task 3 | 23,750 | 23,750 | 23,750 | 23,750 | | | | | | | | | 95,000 |
| Task 4 | | | 19,333 | 19,333 | 19,334 | | | | | | | | 58,000 |
| Task 5 | | | 16,600 | 16,600 | 16,600 | 16,600 | 16,600 | | | | | | 83,000 |
| Task 6 | | | | | 46,750 | 46,750 | 46,750 | 46,750 | | | | | 187,000 |
| Task 7 | | | | | 52,000 | 52,000 | 52,000 | 52,000 | | | | | 208,000 |
| Task 8 | | | | | 55,333 | 55,333 | 55,333 | 55,333 | 55,334 | 55,334 | | | 332,000 |
| Task 9 | | | | | 41,500 | 41,500 | 41,500 | 41,500 | | | | | 166,000 |
| Task 10 | | | | | 41,500 | 41,500 | 41,500 | 41,500 | | | | | 166,000 |
| Task 11 | | | | | 88,857 | 88,857 | 88,857 | 88,857 | 88,857 | 88,857 | 88,858 | | 622,000 |
| Task 12 | | | | | | | | | | | 80,000 | 80,000 | 160,000 |
| Task 13 | | | | | | | | | | | 25,000 | 25,000 | 50,000 |
| Task 14 | 666 | 666 | 666 | 666 | 667 | 667 | 667 | 667 | 667 | 667 | 667 | 667 | 8,000 |
| Total | 64,416 | 94,749 | 130,682 | 130,683 | 362,541 | 343,207 | 343,207 | 326,607 | 144,858 | 144,858 | 194,525 | 105,667 | 2,386,000 |

Table 5. San Francisco Estuary Institute/Sub Contracts Billing Rates/Overhead

| Name of Individual | Organization Name | Average Billing Rate | Includes % Overhead | Note |
|---------------------------|--|-----------------------------|----------------------------|-------------|
| Brian Anderson | UC - Marine Pollution Studies Lab | 57 | 25% | Note 1 |
| John Hunt | UC - Marine Pollution Studies Lab | 58 | 25% | Note 1 |
| Technician | UC - Marine Pollution Studies Lab | 38 | 25% | Note 1 |
| | | | | |
| Scott Ogle | Pacific Eco-Risk Lab | 100 | 50% | Note 2 |
| Jeffrey Cotsifas | Pacific Eco-Risk Lab | 75 | 50% | Note 2 |
| Staff Scientist | Pacific Eco-Risk Lab | 50 | 50% | Note 2 |
| | | | | |
| Wim Kimmerer | San Francisco State University Romberg Tiburon Center | 42.53 | 51% | Note 3 |
| | | | | |
| Bruce MacFarlane | National Marine Fisheries Service | 28.5 | 51.30% | Note 4 |
| Postdoctoral Researcher | National Marine Fisheries Service | | | |
| | | | | |
| Kathy Kuivila | U.S. Geological Survey | 50 | 96% | Note 5 |
| | | | | |
| Jeffrey Miller | AQUA-Science | 100 | 50% | Note 6 |
| | | | | |
| Bruce Thompson | San Francisco Estuary Institute | 102.14 | 37% | Note 7 |
| Sarah Lowe | San Francisco Estuary Institute | 40.3 | | Note 7 |
| Jr. Staff | San Francisco Estuary Institute | 31.75 | | Note 7 |

Note 1: Needs no explanation

Note 2: Negotiated rate

Note 3: Negotiated federal rate with University

Note 4: NOAA federal rate

Note 5: Negotiated USGS rate

Note 6: See Note 3

Note 7: Based on approved Cost Allocation Plan

Table 5, contd.

SFEI INDIRECT CHARGES

Indirect costs (overhead) are applied according to a Cost Allocation Plan that is submitted to US EPA on an annual basis, pursuant to Circular A-122.

Indirect costs are charged at 37.08% of direct salary and benefits.

Types of expenses charged as indirect:

Costs other than salary

- audit
- bank fees
- depreciation on computer and other equipment (over \$500)
- insurance, liability and errors and omissions
- internet access, e-mail
- office equipment leases and/or maintenance agreements for computers, xerox, postage meter, printer
- office supplies
- payroll service
- phone, including ISDN and data lines
- publications, memberships, dues
- purchase of small equipment (under \$500)
- purchase of software (for routine office use)
- routine and incidental copy costs (large reports or bulk printing is billed)
- routine and incidental postage, faxes, etc. (large mailings billed)
- rent, property tax, and building maintenance
- specialized software licenses for GIS, data management, etc.
- travel and related expenses of Board of Directors and Committee of Science Advisors

Salary and benefits attendant to the following support activities

- general accounting and specific project tracking reports
- computer system operations and maintenance
- Board of Directors and Committee of Science Advisors staffing
- marketing/proposal writing
- office management
- personnel management
- professional development and training
- program oversight
- purchasing
- responding to public requests for information
- web page maintenance

Subcontracting fee.

Separate from labor overhead, a subcontracting fee of 7% of subcontract charges is normally applied. This charge provides for accounting, project tracking and reporting, and auditing of funds.

Table 6. Project Timeline.

| | YEAR 1 | | | | YEAR 2 | | | | YEAR 3 | | | |
|---------|-----------|---|---|---|-----------|---|---|---|-----------|---|---|---|
| | Oct. 1999 | | | | Oct. 2000 | | | | Oct. 2001 | | | |
| Quarter | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Task 1 | | | | | | | | | | | | |
| Task 2 | | | | | | | | | | | | |
| Task 3 | | | | | | | | | | | | |
| Task 4 | | | | | | | | | | | | |
| Task 5 | | | | | | | | | | | | |
| Task 6 | | | | | | | | | | | | |
| Task 7 | | | | | | | | | | | | |
| Task 8 | | | | | | | | | | | | |
| Task 9 | | | | | | | | | | | | |
| Task 10 | | | | | | | | | | | | |
| Task 11 | | | | | | | | | | | | |
| Task 12 | | | | | | | | | | | | |
| Task 13 | | | | | | | | | | | | |

COST-SHARING

The following funding has been tentatively approved pending funding of this project.

| <i>Entity</i> | <i>Cash (\$)</i> | <i>In-Kind (\$)</i> | <i>Status</i> | <i>Total (\$)</i> | <i>Footnote</i> |
|----------------------------|-----------------------|-----------------------|---------------|-----------------------|-----------------|
| Dow Agro-Sciences | 150,000 | 45,000 | Tentative | 195,000 | 1 |
| Novartis | 0 | 45,000 | Tentative | 45,000 | 2 |
| CUWA | 105,000 | 15,000 | Tentative | 120,000 | 3 |
| Various (to be determined) | 50,000 | 50,000 | Speculative | 100,000 | 4 |
| <i>TOTAL</i> | <i>305,000</i> | <i>155,000</i> | | <i>460,000</i> | |

1. Total funding for 3-year project to be provided in equal yearly installments pending development of peer-reviewed project work products. In-kind services include analysis of sediment and water samples for chlorpyrifos and funding for outside peer review.
1. 2. In-kind work for analysis of sediment and water samples for diazinon.
3. Cash will be provided in equal yearly installments. Year 1 funding approved; Years 2-3 funding is tentative pending CUWA Advisory Board approval.
4. Pending project approval, the project participants pledge to secure additional cash (\$50,000) and in-kind services (\$50,000).

In addition, the proposed project has linkages with previously conducted, on-going or future approved projects that provide the following in-kind cost sharing:

1. USGS will assist in sampling of bed sediments and analyzing them for currently used pesticides (\$18,000 in salaries and supplies). This project overlaps existing USGS fate and transport studies in the Delta (\$75,000 in salaries over 3 years).
2. SFEI projects including the Regional Monitoring Program sampling of water, sediment and bivalve tissues in the study area 3 times annually (\$332,500 in salaries and supplies), and the Episodic Aquatic Toxicity Pilot Study at Mallard Island (\$107,500 in salaries and supplies).
3. NMFS has collected salmon stomach contents and plankton during 1995-98 at a cost of approximately \$410,000. These samples will be analyzed as part of this project.
4. Delta Keeper and Bay Keeper have offered to supply costs and personnel to assist in sampling as needed throughout this project

APPLICANT QUALIFICATIONS

The Principal Investigators (PIs) that will participate in this study form a multidisciplinary team of recognized experts in contaminant chemistry, toxicity, estuarine ecology, and salmon biology in the Bay-Delta. Several of the investigators are members of the IEP Contaminant Project Work Team that developed Issue Papers about toxicity and pesticides.

The San Francisco Estuary Institute (SFEI), a private non-profit organization dedicated to providing scientific information for Estuary management, will manage and administer this project through sub-contracts to each Investigator. SFEI's success with the San Francisco Estuary Regional Monitoring Program (RMP) has demonstrated their ability to manage large programs with numerous (74) agencies.

Brian Anderson holds an MA from the Moss Landing Marine Laboratories and has been a Research Specialist with the University of California at Santa Cruz since 1985. He has served as lead scientist on numerous aquatic toxicology projects for the California State Water Resources Control Board, the California Regional Water Quality Boards, CDFG, EPA, and NOAA, and is currently a PI for sediment toxicity for the RMP. He has developed short-term chronic toxicity test protocols for a number of marine and estuarine species as part of the SWRCB's Marine Bioassay Project and as part of the State's Bay Protection and Toxic Cleanup Program, and has published many papers on the results of those studies.

John Hunt holds a MS degree from the Moss Landing Marine Laboratories, and has been a Research Specialist with the University of California, Santa Cruz for the past 15 years. He has authored numerous peer-reviewed journal articles and reports on short-term chronic toxicity test development with mysid crustaceans and other species, sediment quality assessment in a variety of estuarine environments, and watershed investigations of sources and causes of aquatic toxicity. Protocols authored by Mr. Hunt and Mr. Anderson constitute four of the seven included in the EPA west coast toxicity testing methods manual. He is currently involved in sediment toxicity identification evaluation studies in the Sacramento-San Joaquin Delta, and TIE-based watershed studies in the Salinas and Pajaro Rivers, funded by the California State Water Resources Control Board, Regional Water Quality Control Boards, the Department of Fish and Game, US EPA, and NOAA, and is a PI for the RMP.

Dr. Wim Kimmerer is a Senior Research Scientist at San Francisco State University's Romberg Tiburon Center. His research has included the influence of predation on community structure, population dynamics of zooplankton and fish, the interaction of plankton with their physical environment, and the influences of human activities on coastal marine environments, and has published numerous peer reviewed papers on those topics. He has been very active in CALFED activities over the past several years. He was a member of the CALFED Strategic Planning Core Team, and Chaired the CMARP System Productivity Workgroup. He was a Principal Investigator for the IEP Entrapment Zone Study and is the chairman of the IEP's Estuarine Ecology Team.

Dr. Kathryn M. Kuivila is a research hydrologist at the Water Resources Division of the U.S. Geological Survey in the California District Office in Sacramento, California. Her primary focus of research is on the transport, degradation, and fate of organic contaminants, particularly pesticides, in the San Francisco Bay Estuary. Her research efforts have contributed greatly to understanding riverine pesticide inputs, transport of pesticides during high flow events, and degradation of pesticides within the estuary. She has collaborated on other projects with the Central Valley Regional Water Quality Control Board, California State Water Quality Control

Board, Interagency Ecological Program, U.S. EPA, and California Department of Fish and Game. She is a member of the IEP Contaminants Project Work Team. Dr. Kuivila will coordinate the trace organics analyses for the proposed Tasks.

Dr. R. Bruce MacFarlane is a Research Fishery Biologist with the National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Southwest Fisheries Science Center, Santa Cruz / Tiburon Laboratory in Tiburon. He is a principal investigator of research on the physiology, biochemistry, and ecology of marine and anadromous fishes. His research addresses functional relationships between fishes and their environment using an integrated field and laboratory experimental approach. Currently, his research focuses on the interannual variability of growth and development of juvenile salmonids in the San Francisco Estuary and the influences of environmental factors.

Dr. Jeff Miller is President of AQUA-Science, an environmental toxicology consulting company located in Davis, CA. He has over 20 years of experience directing large-scale laboratory and field projects involving acute and chronic bioassays with over 14 freshwater, estuarine and marine species for NPDES dischargers, private clients including major steel and pesticide companies and for CSWQCB, USEPA and USFWS. He has developed many innovative Toxicity Identification Evaluation (TIE) approaches including chemical toxicity fingerprinting and antibody-mediated TIE procedures, methods to assess the interactive toxicity of pesticides, TIE procedures, and application of TIE methods to West Coast aquatic species. He is a member of the IEP Contaminant Effects Team, an instructor for USEPA on effluent TIE methods and has developed and taught advanced TIE workshops at local and national scientific meetings, and has authored many peer-reviewed papers in the area of environmental toxicology.

Dr. Scott Ogle is the Research Director at Pacific Eco-Risk Laboratories in Martinez, CA. For the past 15 years, his research has focused on factors affecting toxicity and bioaccumulation of pesticides, petroleum hydrocarbons, and metals to algae, invertebrates, and fish. His current research activities include evaluation of contaminants and toxicity in ambient waters and stormwater runoff in the San Francisco Estuary system. He also directed an assessment of sediment toxicity in the Delta, and has directed or participated in numerous projects encompassing all of the standardized EPA and ASTM test procedures as well as projects involving development of new testing procedures for new species, and is a member of the IEP Contaminant Effects Team.

Dr. Bruce Thompson is the Senior Scientist at SFEI with expertise in contamination in the estuary, sediment toxicity, and benthic ecology. He has had over 17 years of experience working on contaminant effects on benthic organisms and monitoring program design, and has published numerous peer reviewed papers on those topics. He was instrumental in the successful start-up of the RMP in 1993 and served as Program Manager through 1997. He is a member of the IEP Management Team, Contaminant Effects Team, Estuarine Ecology Team, chaired the Bay-Delta Contaminants Monitoring Workgroup of CMARP, and served on the state's Bay Protection and Toxic Clean-up Program Scientific Review Committee. Dr. Thompson will coordinate the administration and management for the Project through SFEI.

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APPLICATION FOR FEDERAL ASSISTANCE

OMB Approval No. 0348-0043

| | |
|--|------------------------------|
| 2. DATE SUBMITTED <u>April 16, 1999</u> | Applicant Identifier |
| 3. DATE RECEIVED BY STATE | State Application Identifier |
| 4. DATE RECEIVED BY FEDERAL AGENCY | Federal Identifier |

| | |
|--|--|
| 1. TYPE OF SUBMISSION: | Preapplication |
| Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction | <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction |

5. APPLICANT INFORMATION

| | |
|---|--|
| Legal Name: <u>San Francisco Estuary Institute</u> | Organizational Unit: |
| Address (give city, county, State, and zip code): <u>1325 S.46th Street Contra Costa County Richmond, CA 94804</u> | Name and telephone number of person to be contacted on matters involving this application (give area code) <u>MARGARET R. JOHNSTON 510 231-9539</u> |

6. EMPLOYER IDENTIFICATION NUMBER (EIN):

9 4 - 2 9 5 1 3 7 3

8. TYPE OF APPLICATION:

☒ New ☐ Continuation ☐ Revision

If Revision, enter appropriate letter(s) in box(es) ☐ ☐

A. Increase Award B. Decrease Award C. Increase Duration
D. Decrease Duration Other(specify):

7. TYPE OF APPLICANT: (enter appropriate letter in box)

A. State H. Independent School Dist. ☐
B. County I. State Controlled Institution of Higher Learning
C. Municipal J. Private University
D. Township K. Indian Tribe
E. Interstate L. Individual
F. Intermunicipal M. Profit Organization
G. Special District N. Other (Specify) Non-Profit

9. NAME OF FEDERAL AGENCY:

Research

10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:

☐ ☐ - ☐ ☐ ☐

TITLE:

12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.):

11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:

Eval. of Contaminant Effects on
Priority Fish Food Chain Resources in
the Sac.-San Joaquin River and the Bay-
Delta, Estuary & Dev. of Pesticide
Monitoring Guidelines

13. PROPOSED PROJECT

Start Date Ending Date
10/99 9/02

14. CONGRESSIONAL DISTRICTS OF:

a. Applicant

7TH

b. Project

7TH

15. ESTIMATED FUNDING:

| | | |
|-------------------|----|------------------|
| a. Federal | \$ | 00 |
| | | <u>2,495,770</u> |
| b. Applicant | \$ | 00 |
| c. State | \$ | 00 |
| d. Local | \$ | 00 |
| e. Other | \$ | 00 |
| f. Program Income | \$ | 00 |
| g. TOTAL | \$ | <u>2,495,770</u> |

16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?

a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON:

DATE _____

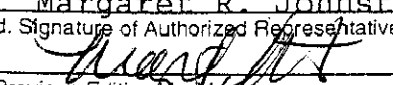
b. No. ☐ PROGRAM IS NOT COVERED BY E. O. 12372
☐ OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW

17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?

☐ Yes If "Yes," attach an explanation.

☒ No

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.

| | | |
|---|---------------------------------------|--|
| a. Type Name of Authorized Representative <u>Margaret R. Johnston</u> | b. Title <u>Executive Director</u> | c. Telephone Number <u>510 231-9539</u> |
| d. Signature of Authorized Representative  | e. Date Signed <u>4/16/99</u> | |

BUDGET INFORMATION - Non-Construction Programs**SECTION A - BUDGET SUMMARY**

| Grant Program Function or Activity (a) | Catalog of Federal Domestic Assistance Number (b) | Estimated Unobligated Funds | | New or Revised Budget | | |
|---|--|-----------------------------|--------------------|-----------------------|--------------------|--------------|
| | | Federal (c) | Non-Federal (d) | Federal (e) | Non-Federal (f) | Total (g) |
| 1. | | \$ | \$ | \$ | \$ | \$ |
| 2. | | | | 2,495,770 | | 2,495,770 |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. Totals | | \$ | \$ | \$ 2,495,770 | \$ | \$ 2,495,770 |

SECTION B - BUDGET CATEGORIES

| 6. Object Class Categories | GRANT PROGRAM, FUNCTION OR ACTIVITY | | | | Total |
|--|-------------------------------------|-----|-----|-----|--------------|
| | (1) | (2) | (3) | (4) | (5) |
| a. Personnel | \$ 116,892 | \$ | \$ | \$ | \$ 116,892 |
| b. Fringe Benefits | 22,151 | | | | 22,151 |
| c. Travel | | | | | |
| d. Equipment | | | | | |
| e. Supplies | | | | | |
| f. Contractual | 2,305,170 | | | | 2,305,170 |
| g. Construction | | | | | |
| h. Other | | | | | |
| i. Total Direct Charges (sum of 6a-6h) | | | | | |
| j. Indirect Charges | 51,557 | | | | 51,557 |
| k. TOTALS (sum of 6i and 6j) | \$ 2,495,770 | \$ | \$ | \$ | \$ 2,495,770 |
| 7. Program Income | \$ | \$ | \$ | \$ | \$ |

| SECTION C - NON-FEDERAL RESOURCES | | | | |
|-----------------------------------|---------------|-----------|-------------------|------------|
| (a) Grant Program | (b) Applicant | (c) State | (d) Other Sources | (e) TOTALS |
| 8. | \$ | \$ | \$ | \$ |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. TOTAL (sum of lines 8 - 11) | \$ | \$ | \$ | \$ |

| SECTION D - FORECASTED CASH NEEDS | | | | | |
|------------------------------------|--------------------|-------------|-------------|-------------|-------------|
| | Total for 1st Year | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |
| 13. Federal | \$ 457,120 | \$ 73,564 | \$ 103,897 | \$ 139,831 | \$ 139,831 |
| 14. NonFederal | | | | | |
| 15. TOTAL (sum of lines 13 and 14) | 457,120 | 73,564 | 103,897 | 139,831 | 139,831 |

| SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT | | | | |
|---|--------------------------------|--------------|------------|------------|
| (a) Grant Program | FUTURE FUNDING PERIODS (Years) | | | |
| | (b) First | (c) Second | (d) Third | (e) Fourth |
| 16. | \$ 457,120 | \$ 1,412,152 | \$ 626,498 | \$ |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. TOTAL (sum of lines 16-19) | \$ 457,120 | \$ 1,412,152 | \$ 626,498 | \$ |

| SECTION F - OTHER BUDGET INFORMATION | |
|--------------------------------------|---------------------------------|
| 21. Direct Charges: 2,444,213 | 22. Indirect Charges: 51,557 |
| 23. Remarks: | |

NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 19 (REV. 3-95) FMC

COMPANY NAME

SAN FRANCISCO ESTUARY INSTITUTE

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

Margaret R. Johnston

DATE EXECUTED

4/16/99

EXECUTED IN THE COUNTY OF

Contra Costa County

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE

Executive Director

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

San Francisco Estuary Institute

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

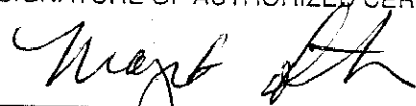
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

| | | | |
|--|--|--------------------|--|
| SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL | | TITLE | |
|  | | Executive Director | |
| APPLICANT ORGANIZATION | | DATE SUBMITTED | |
| San Francisco Estuary Institute | | April 16, 1999 | |